



Technology for Heavy Metals Removal from Wastewater



- Industrial discharges in various industries-tanning, mining, electroplating, copper & other metal smelters, weapons storage facilities, etc.-require efficient, cost effective methods for heavy metals extraction
- Benefits of UPEC wastewater treatment process:
 - Effective in removing chromium and other contaminants in tannery wastewater
 - Provides removal of various metals for recovery and utilization
 - Heats water in purification process reducing the need to warm incoming water
 - Includes wasteless disposal of sludge and other tannery solid waste
- System validation performed on prototype unit at Irving Tanning plant site demonstrated applicability to tanning industry
- Capital cost of treatment not exceeding \$7-8 per 1,000 gallons of wastewater — highly competitive with other methods
- Installed and tested industrial unit for copper remediation at a printed circuit board plant in Russia; the unit is certified for industrial use

Commercialization Started



Fenixtec Technology International, Inc.
Reston, VA



Ural Process Engineering Ltd.
Yekaterinburg, Russia



Brookhaven National Laboratory
Upton, NY